

RCP02 V07 Release Notes

These notes cover changes made to the RCP02 code since release V06 of 23 April 1997. If you are upgrading from an earlier release, please read those notes also.

Bug Repairs

1. Repaired a bug in which negative altitudes from the INU would be reported improperly on the serial interface output stream.

New Features

1. The "monitor INU" printout has been improved so that all position and orientation values can be monitored. There are now two alternate lines (use "alt" command to toggle between them) that hold the complete text. Previously the latitude, longitude, altitude, and year could not be seen. Also, the orientation angles are now printed with their hundredths digit included.
2. The factory default serial format output by the RCP02 is now RCV02 rather than RCV03. The factory default input format remains XMT02.
3. The RCP02 now does a more complete reinitialization of its internal parameters when exiting from a shutdown condition. This may address field reports (that we could not duplicated at SIGMET) of sticky shutdown errors when S/D angle inputs were used with a virtual tachometer.

Setup Changes

1. The saved setup structure has been changed to a new format that will be preserved across all future code releases for the RCP02. You will have to re-enter all of your previous settings the first time that you upgrade to Rev.7. However, subsequent releases will be able to import the saved settings from any Rev.7 or higher previous release, so that old values should never have to be retyped again.
2. A "smart upgrade" feature has been added to the RCP02, wherein reasonable defaults will automatically be inserted for new setup parameters that did not exist in the previous code release.
3. An additional setup question has been added in the "site host" section. You may now disable the interpretation of "control" packets that are received by the RCP02, while still allowing BITE interrogation packets and "chat" packets to be treated normally. This makes it easier to setup and analyze the antenna servos via chat mode from the host computer. Previously the servos would resume responding to external control packets whenever the antenna was not explicitly under control of the chat interface, e.g., between monitor and setup command sequences. As a reminder, the RCP02 front panel will display "Lockout" on its status line whenever control packet commands are being ignored.

4. You may now produce a single printout of all of the current setup values using the command "Help Listall". The subsections are printed in the following order:
- Site Display Site Host Site Misc
 - Status Control
 - Axis AZ Vservo AZ Pservo AZ
 - Axis EL Vservo EL Pservo EL
 - INU